Best Available Copy

Page 2

Application/Control Number: 10/749,945

Art Unit: 2600

CLMPTO 08/12/04 JW

Amend Claims 3,5,7-9 14,15, 17, 19,21,25,26,33,34,36

 A method of delivering a packet from a first device in a first about of a scatternet in a destination device in a second picturet of the additional comprision;

creating a circot radio communications this between the first device and the cest nation device; and

transmitting the packet via the direct restin common extiens tink.

- 2/4 method as claimed in claim 1, wherein the continuous device is kined to the first picenes.
 - 9. (CURRENTLY AMENDED) A method as usuared in data of $\alpha = 0$, wherein the step of creating a stract toda communications tok creating a black between the first picohol shall the economistone.
 - γ (CRIGINAL) A medical as defined in damp 2, wherein the first expand approximate Mayor of the third globbet,
 - 5. (CLERENTLY AMENDED) A mail (d) as objined in ubine 1, 2, 0 or 4 wherein the exallernel has 9 upo ogy defined at in axion of the scatternet and creating the direct radio accommodations in 2 edjusts the oppulgy of the scatternet.
 - 6. (DR-BINAL) A method as identified in plaint 4, wherein the direct radio continuousland interested a short-clique in the redeotimpology.
 - 7. (CURRENTLY AMENDED) A method as glatned in emperceding d'am 1, wherein a ploof et sie lie liépology by power ratio frequency rework compasing a biaster as a control ratio and a ratio or soon Stayes as departed; acide, each of which there instrument had a communication in it to the Master, and a scatternet is a discription from arowing a puretty of proposets that are interpreted by radio communication finite.
 - (CURRENTLY AMENUED) A mothed as distinct in any american disting disting 1, wherein the distribution ending the declination device are mobile.

Application/Control Number: 10/749,945

Art Unit: 2600

(CURRENTLY AMENDED) A method as elsined in any proceding claim 1, further companier.

determining whether the accession of a direction of communications likely eachieft et. 36/100 and the destination device is gossible.

- 10 (ORIGINAL) A method as dained in claim by whomin the packet comprises an analysis of the destination device and the slap of colemning uses the dentity of the destination device.
- 11. (UKBINAL) A motion as planted in de milito, wherein the blay of determining sompless deamining if the destination covide is with nited occurrence other range of the first device.
- 12 (DR SINAL) A method see after in dain 3, where industries device maintains a tall α of devices with a radiic communication range
- 12. (ORIGINAL) A method as charged in deligh 12, where in the file, som unisees, for each device within communication range, an address and a clock offset
- 14. (CURRENTLY AMENDED) A method as claimed in $\frac{1}{2}$ (2.4–43) wherein the list is maintained using the Stremoth loggry procedure.
- IB. (CURRENT Y AMPLOPED) An ellippias plained in claim (2,4000)4, wherein the step of ceterrining comprises the first directe determining whether the (feeling) or depice is included in the jet.
- 16. (QRIDINAL) A profiled as distined in early 16, whereas the comparison occurs within the Guelouth Link tayon
- 17. CURREN (LY AMENDED) 4 monochas delinad in arry-vacciding dainnit, wherein the direct radio communics, one link is remacrary.
- 18. ICRIGINALL A method as distinct in claim 17, wherein the differ halfo communications tak to released after a predetermined period of mactivity.
- 18. (CURRENT Y AVENDED) A method as defined in any preceding dairy 3, wherein the packet is a routing request.

Best Available Copy

Page 3

Application/Control Number: 10/749,945

Art Unit: 2600

23. (DHYSINA.) A method of celvering a peopli from a first cerce in a first successful power radio fingliancy national in a distributed flaw power radio fingliancy nationals in a dealination device in a second star-topology euo-natiwork of the distributed network comprising:

 $\alpha \omega_{\rm h}/q$ a direction power radio frequency communications link between the first daylog and the coefficient covide, and

transmitting the packet via the direct low power radio transparely assum, intestions link

21. (CURRENTLY AMENDED) 4 carder embodying electrically regions visited when looded into a processor chaptes a method as claimed in any one of claime 1 to 40.

 (OR GINAL) A corece for participating in a first parameter a switthment one for detecting is people to a deating on people in a second biconel of the scatternet comprising;

means for viesting a men direct racio communications link to the destination dence while mainlying an existing filtest racio communications link within the first piconet, and

a radio transmitter for transmitting the gradest stained are been communicational take

23. (CRIGINAL) A monachin delivering appetentry a field evide in a first proceedulations and test proceedulations by a destruction device in a second bicanct of the scatterest comprising; macaying the packet at the field day oe;

determining whether the creation of a prest radio parameter saltons the asked of the descent the first device said the coefficient of covere is precible, and

if it is not possible, forwarding the sector within the sectional

- 24. (CRIGINAL) A mound as cistmed in dain 78 further comprising ending an address of the first device to the packet before forwarding it.
- 25. (CURRENTLY AMENDED) A method as deimed in an in 23 ex 24, wherein the measure packet is transferred from a relegate agent a gifthe eyer and, if possible, the link layer creates a direct radio communications this with the costination does coland, in not possible, the this layer forced the received packet.
- 26. (CURRENTLY AMENDED) A method so defined in defin 20 or 24, wherein like received packet is buffered in a network layer and a nobleaban comprising the address.

Best Available Copy

Page 4

Application/Control Number: 10/749,945

Art Unit: 2600

of the destination device is transferred to a link tayer and in possible, the tink tayer areales is direct tedio communications link with the destination device and, if not possible, replied to the national tayer which transfers the received packet to the link layer for forwarding.

27. (CHIGHNAL) is inclined as learned in charm 23, wherein the record turber complete, if the greater of a directified occumulations into between the first dense and the describent cover is possible, creating a direct radio communications if his between the first device and the describent covers.

28. (OR SIMAL) A method as claimed in claim 23, wherein the here were packet is a materiaguest packet and the method further comparises, if the creation of a direct radio summain cations link between the first device and the destination device is possible transmitting a lepty packet to a source of the received outer explosit, packet.

20. (OR SINAL) A method of determining arouse from a source coace maintainment of a scatterned to a disciplation goving the second ploof of that exacted committing to the second concentration of the coace of concentration of a creater and creater

30 (CRIGINAL) A method as planned in claim 29, wherein the method further continuous first control of a direct and occumulations this Service 1980 (69/2) and the Cestington Cest 6 is possible, creating a direct radio communications this between the first doctor and the postulation creates

11.(UR BINAL) A mothed at delivering a period from a "rail device" of "rail pick abulia scatter or device in a second picknet of that scatter or composing creating a third promot between the first promot and the eacond picknet, and transmitting the pasket visible third picknet.

32.(ORIGINAL) A method as charmed in claim 3° , wherein the tight device operate as Messar of the third planet.

2.3 (CURRENTLY AVENDED) A melliod as defined in claim 51 or 32 wherein the step of creating a third papers comprises smalling in direct radio communications 10% between the first people and the postination coace.

34. (CURRENTLY AMENDED) A motion as partial in daling 31, \$2.6633 wherein the scatterness at logistary defined estimated in the scatterness and smalling in filling placed and filling in the moderny of the scatterness.

25 (CRIGINAL) A method as plained in claim 31, wherein the third pictural orbition a short group in the network topology.

26 (CUMPENTI Y AMENDED) A method se district in any are of claims 01 to 05, wherein a district is a startogology low power radio tequency network exampleing a Macazinas opiniof of district or near more 5 gives as dependent nacios, cost of which have a radio communications link to the Master, and a scenariose teledificace low power radio (regional power) and in frequency restours, communication as obtained of circumstation and interconnected by racio communication inter-

Best Available Copy

Page 5